

SYSTEM, COMMUNICATION APPARATUS, OPTICAL MODULE, METHOD, AND OPTICAL NETWORK

ABSTRACT

This application discloses a system, a communication apparatus, an optical module, a method,
5 and an optical network. The system may include a communication apparatus and an optical module.
The communication apparatus includes a control module and a service module. The optical module
includes a storage unit and an optical transmitter unit. The storage unit may store nonlinear
compensation information of a modulator in the optical transmitter unit. After the optical
transmitter unit is directly connected to the service module, the control module may read the
10 nonlinear compensation information from the storage unit, and configure a nonlinear
compensation coefficient of the service module based on the nonlinear compensation information.
The service module sends an electrical signal to the optical transmitter unit based on the configured
nonlinear compensation coefficient. The modulator modulates an electrical signal obtained
through nonlinear compensation into an optical signal. This helps compensate for nonlinear
15 distortion introduced by the modulator to the signal.

Fig. 5